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| Name: Class: 8 /……........ | |
| Book pages: | |
| From 12 /12 to 12 /12 /2011 | Date: |
| 8.13.2 | Core Standard number |
| *Sts. able to :*   * ***Know*** *what is hydrogen gas.* * ***Know*** *some preparations of hydrogen gas and write the chemical equation of these reactions.* * ***Demonstrate*** *a test for hydrogen gas.* * ***Know*** *some properties of oxygen*   *.* | Learning Objectives  Logo + text 2 |

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| **شعار-القسم** | **Chemistry** | **F:\شعار المدرسة.jpg** |
| **Worksheet ( 5 )** |
| **Properties of hydrogen** |

1. What is hydrogen gas?

Hydrogen is a naturally occurring gas

Hydrogen was discovered by Henry Cavendish .

1. Preparation of hydrogen gas
2. is made by the electrolysis of water.

**2H2O -> 2 H2(g) + O2(g)**

1. Zinc reacts with hydrochloric acid

**Zn + HCl ==> H2  + Zncl2**

1. Potassium reacts with water:

**K + H2O ==> KOH + H2**

1. Magnesium reacts with hot water ( steam )

**Mg + H2O ==> MgO + H2**

1. What is the test for hydrogen?

Hydrogen is flammable. Hydrogen ''pops'' if ignited splint is brought near.

1. Some physical properties properties for hydrogen

Atomic Number : 1

Atomic Mass : 1.008

Melting Point : -259 0C

Boiling Point : -253 0C

Density : 0.09